

**147 Cordaville Road  
Southborough, MA 01772**



**DATE: February 5, 2020**

**MEMORANDUM**

**TO: Southborough Board of Selectmen  
CC: Mark Purple, Town Administrator  
FROM: Karen Galligan, DPW Superintendent  
SUBJECT: Water Rate Increase**

The Department of Public Works (DPW) has been working with Matt Abrahams of The Abrahams Group to review Southborough's current water rates in relation to future expenditures. As you know, the Water Budget is fully funded through the water rates. Unfortunately, the review revealed that, without raising the water rates, the Water Enterprise Fund is projected to run at a deficit for the next five years. This shortfall occurred because Southborough's water rates have not increased since September 2016, but employee pay, benefit costs, the cost of water, and capital project debt have increased during that time.

Current Water Rates		
Tier 1	0-1000CF*	Minimum (varies by meter size)
Tier 2	1001-2000CF	\$3.73/100CF
Tier 3	2001-3000CF	\$4.26/100CF
Tier 4	3001-6000CF	\$5.33/100CF
Tier 5	6000CF and up	\$6.40/100CF

There is a 25% reduction on the Minimum rate for seniors

**\* CF=cubic foot – a cubic foot of water is equivalent to 7.48 gallons**

The following goals were used to develop new rates:

- A retained earnings target of 20% of the water budget's expenditures. Retained earnings will help mitigate projected increases in debt due to planned capital projects.
- Minimize the impact on the low-end user, which includes the majority of senior users.
- Ensure the impact on the average residential user (average Southborough use 2600CF/bill) is manageable.
- Increase rates at the highest tiers where the usage may be considered to be non-essential.

The DPW looked at several different percent increases and several tier changes to try to meet the above goals. The Finance Team weighed in on the options developed. The options were also presented to the Public Works Planning Board for discussion and opinions.

The option that met the criteria and that also kept the Enterprise Fund from being at a deficit each year was endorsed by both groups. This option consists of the following changes:

Changing the water volumes for the Tiers

Tier 1	0-750CF
Tier 2	751-3000CF
Tier 3	3001-10000CF
Tier 4	!0000CF and up

Determining what the current rate for the new Tiers would equate to:

	Current Range	Current Rate	New Range	Adjusted Current Rate
Tier 1	0-1000CF	Minimum	0-750	No Change
Tier 2	1001-2000CF	\$3.73/100CF	751-3000CF	No Change (\$3.73/100CF)
Tier 3	2001-3000CF	\$4.26/100CF	3001-10000CF	\$5.86/100CF (average of Tiers 4 & 5)
Tier 4	3001-4000CF	\$5.33/100CF	10000CF and up	\$10.00/100CF (new value)
Tier 5	6000CF and up	\$6.40/100CF	NA	NA

After the new Tiers and their equivalent current rates were developed, each tier was increased by 17%.

The proposed new rates are below:

Meter Size	Tier 1 (Minimum) 750CF	Tier 2 751-3000 (CF)	Tier 3 3000-10000 (CF)	Tier 4 10001 and up (CF)
5/8"	\$34.36	<b>\$4.36/100CF</b>	<b>\$6.68/100CF</b>	<b>\$10.00/100CF</b>
5/8" Senior	\$25.76			
3/4"	\$46.86			
3/4" Senior	\$35.14			
1"	\$56.33			
1" Senior	\$42.25			
1 1/2"	\$71.90			
2"	\$93.75			
3"	\$156.28			
4"	\$286.79			

I have attached The Abrahams Group's analysis of how this change will affect different users bills, both quarterly and annually. The sheets also show what percentage of current bills fall within each of the tiers.

I have also attached pages from the 2019 MWRA Rate Survey. This survey normalizes all rates by assuming water usage of 12000CF/year. Currently, Southborough's yearly rate at 12000CF/year is \$437.88 (or \$0.00488/gallon), 9<sup>th</sup> lowest of the 10 MWRA fully supplied, water only, communities. This rate change will bring a Southborough resident's cost for 12000CF/year to \$486.24/year (or \$0.00542/gallon). With all other community's rates remaining the same, this will move Southborough's water rates into the 8<sup>th</sup> lowest position.

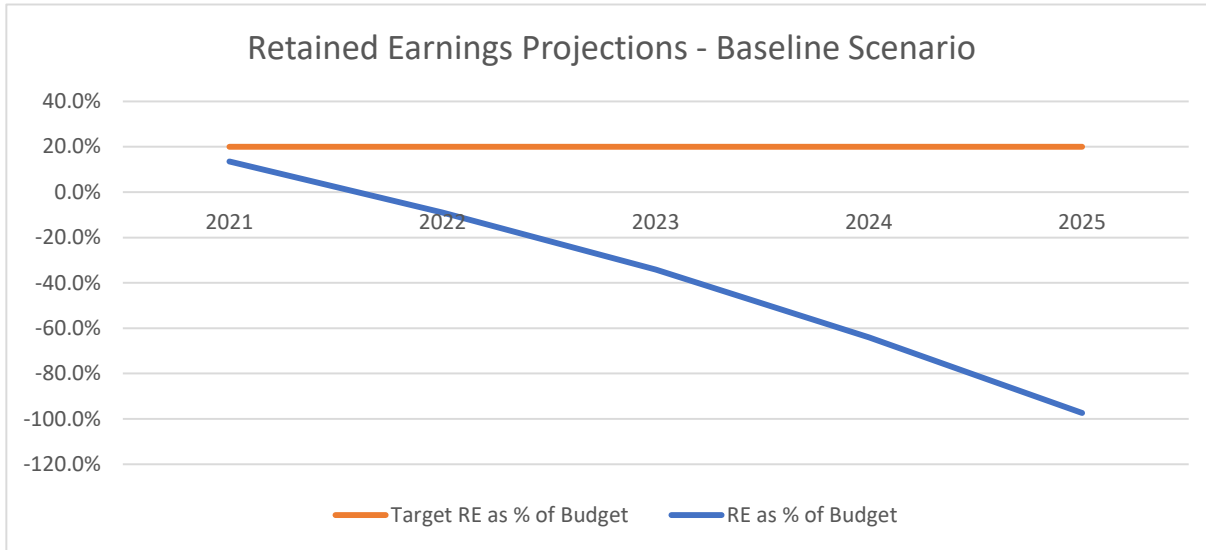
The rate change is requested to begin after the March reading, so that the July bill will be at the new rates.

**MWRA SYSTEMWIDE SUMMARY DATA  
2019**

	<b>2018</b>	<b>2019</b>
<b>Avg. combined water and sewer cost</b>	\$1,602.90	\$1,659.63
<b>Percent change from prior year</b>	2.8%	3.5%
<b><u>WATER BILLING FREQUENCY</u></b>		
<b>Semi-Annual</b>	8	8
<b>Tri-Annual</b>	2	2
<b>Quarterly</b>	42	42
<b>Bi-Monthly</b>	2	2
<b>Monthly</b>	6	6
<b><u>WATER RATE STRUCTURE</u></b>		
<b>Ascending Block with Base/Minimum Charge</b>	34	35
<b>Ascending Block only</b>	12	12
<b>Flat Rate with Base/Minimum Charge</b>	7	7
<b>Flat Rate only</b>	6	5
<b>Fixed Fee</b>	1	1
<b><u>SENIOR CITIZEN/LOW-INCOME DISCOUNTS</u></b>		
<b>Senior Discount</b>	17	17
<b>Low-Income Discount</b>	7	7
<b>Both</b>	7	7
<b>Neither</b>	29	29
<b><u>DEBT SERVICE EXCLUSION</u></b>		
	3	3
<b><u>CHANGES IN COMBINED WATER AND SEWER CHARGES</u></b>		
<b>Decrease</b>	2	2
<b>No change</b>	16	13
<b>0% to 10% increase</b>	39	39
<b>10% to 20% increase</b>	3	0
<b>20% to 30% increase</b>	0	1
<b>30% to 40% increase</b>	0	1
<b>40% to 50% increase</b>	0	0
<b>Greater than 50% increase</b>	0	0

<b>Target Retained Earnings as % of Budget:</b>	20.0%
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<b>Baseline</b>	<b>2021 PROJECTED</b>	<b>2022 PROJECTED</b>	<b>2023 PROJECTED</b>	<b>2024 PROJECTED</b>	<b>2025 PROJECTED</b>
Surplus/Deficit	\$ (537,975)	\$ (540,695)	\$ (645,069)	\$ (931,116)	\$ (1,062,759)
Projected Retained Earnings	\$ 325,201	\$ (215,494)	\$ (860,563)	\$ (1,791,679)	\$ (2,854,438)
RE as % of Budget	13.5%	-8.9%	-34.2%	-64.0%	-97.4%
Target RE as % of Budget	20.0%	20.0%	20.0%	20.0%	20.0%



**User Impact**

<b>User Type</b>	<b>Usage per Bill (Avg.)</b>	<b>Current Bills</b>		<b>New Bills</b>		<b>Diffs</b>	
		<b>\$ per Bill</b>	<b>\$ Total Year</b>	<b>\$ per Bill</b>	<b>\$ Total Year</b>	<b>\$ per Bill</b>	<b>\$ Total Year</b>
Low-End SEN User	475	\$ 22.02	\$ 88.08	N/A	N/A	N/A	N/A
Low-End RES #1	75	\$ 29.37	\$ 117.48	N/A	N/A	N/A	N/A
Low-End RES #2	800	\$ 29.37	\$ 117.48	N/A	N/A	N/A	N/A
Avg. RES (2,600/bill)	2,775	\$ 101.83	\$ 407.30	N/A	N/A	N/A	N/A
High-End RES #1	11,025	\$ 599.87	\$ 2,399.46	N/A	N/A	N/A	N/A
High-End RES #2	45,675	\$ 2,832.05	\$ 33,984.63	N/A	N/A	N/A	N/A
High-End Non-RES #1	27,483	\$ 1,664.11	\$ 19,969.28	N/A	N/A	N/A	N/A
High-End Non-RES #2	41,367	\$ 2,561.85	\$ 30,742.17	N/A	N/A	N/A	N/A

**Billing Data by Tier**

**Residential**

Includes Residential and Residential Institution account types

Tier	# Bills	% Bills	Usage	% Usage	Billings	% Billings
1	3,170	25.67%	11,197,800	34.54%	\$ 386,086.10	27.00%
2	4,613	37.35%	6,959,900	21.47%	\$ 259,604.27	18.16%
3	1,982	16.05%	3,517,200	10.85%	\$ 149,832.72	10.48%
4	1,580	12.79%	4,848,500	14.96%	\$ 258,425.05	18.07%
5	1,005	8.14%	5,895,000	18.18%	\$ 375,884.72	26.29%
<b>Totals</b>	<b>12,350</b>	<b>100.00%</b>	<b>32,418,400</b>	<b>100.00%</b>	<b>\$ 1,429,832.86</b>	<b>100.00%</b>
		<b>Average:</b>	2,625		\$ 115.78	

**Non-Residential**

Includes any account not residential or municipal.

Tier	# Bills	% Bills	Usage	% Usage	Billings	% Billings
1	310	32.80%	767,500	13.20%	\$ 56,727.44	16.62%
2	139	14.71%	565,600	9.73%	\$ 21,096.88	6.18%
3	84	8.89%	458,600	7.89%	\$ 19,536.36	5.72%
4	153	16.19%	969,300	16.67%	\$ 51,663.69	15.14%
5	259	27.41%	3,053,200	52.51%	\$ 192,314.64	56.34%
<b>Totals</b>	<b>945</b>	<b>100.00%</b>	<b>5,814,200</b>	<b>100.00%</b>	<b>\$ 341,339.01</b>	<b>100.00%</b>
		<b>Average:</b>	6,153		\$ 361.21	

**Municipal**

Includes Other account type

Tier	# Bills	% Bills	Usage	% Usage	Billings	% Billings
1	38	54.29%	39,300	14.35%	\$ 3,016.46	17.96%
2	14	20.00%	23,900	8.73%	\$ 891.47	5.31%
3	5	7.14%	14,200	5.18%	\$ 604.92	3.60%
4	8	11.43%	27,100	9.89%	\$ 1,444.43	8.60%
5	5	7.14%	169,400	61.85%	\$ 10,841.60	64.54%
<b>Totals</b>	<b>70</b>	<b>100.00%</b>	<b>273,900</b>	<b>100.00%</b>	<b>\$ 16,798.88</b>	<b>100.00%</b>
		<b>Average:</b>	3,913		\$ 239.98	

**Seniors Only**

Shows seniors data only (also part of Residential table above)

Tier	# Bills	% Bills	Usage	% Usage	Billings	% Billings
1	728	47.86%	1,245,200	51.33%	\$ 35,228.01	39.43%
2	504	33.14%	518,900	21.39%	\$ 19,354.97	21.66%
3	128	8.42%	222,100	9.15%	\$ 9,461.46	10.59%
4	114	7.50%	266,600	10.99%	\$ 14,209.78	15.90%
5	47	3.09%	173,300	7.14%	\$ 11,091.20	12.41%
<b>Totals</b>	<b>1,521</b>	<b>100.00%</b>	<b>2,426,100</b>	<b>100.00%</b>	<b>\$ 89,345.42</b>	<b>100.00%</b>
		<b>Average:</b>	1,595		\$ 58.74	

Town of Southborough  
Water Rate Study

Description	2017 ACTUAL	2018 ACTUAL	2019 ACTUAL	2020 BUDGETED	2020 PROJECTED	2021 PREL. BUD.	2021 PROJECTED	2022 PROJECTED	2023 PROJECTED	2024 PROJECTED	2025 PROJECTED	COMMENTS
<b>Revenues and Other Sources</b>												
TAX TITLE WATER LIENS	\$ 2,052	\$ 3,748	\$ 3,437	\$ -	\$ 3,079	\$ -	\$ 3,079	\$ 3,079	\$ 3,079	\$ 3,079	\$ 3,079	FY20-FY25, three-year average FY17-FY19
TT INT WTR LIEN	\$ 201	\$ 1,559	\$ 1,056	\$ -	\$ 938	\$ -	\$ 938	\$ 938	\$ 938	\$ 938	\$ 938	FY20-FY25, three-year average FY17-FY19
WATER LIENS (Tied to a FY)	\$ 44,608	\$ 61,134	\$ 43,654	\$ -	\$ 49,799	\$ -	\$ 49,799	\$ 49,799	\$ 49,799	\$ 49,799	\$ 49,799	FY20-FY25, three-year average FY17-FY19
OTHER SERVICE C RATES-BUSRESI	\$ 2,084,521	\$ 1,765,167	\$ 1,819,049	\$ 1,973,806	\$ 1,728,096	\$ 2,247,064	\$ 1,728,096	\$ 1,728,096	\$ 1,728,096	\$ 1,728,096	\$ 1,728,096	FY20-FY25, assume FY19 amount less 5% as FY20 is trending in comparison
OTHER SERVICE C SERVICE	\$ 90	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	Assume none since none in FY18 and FY19
OTHER SERVICE C OTHER CHARGES	\$ 59,665	\$ 52,881	\$ 47,423	\$ -	\$ 50,000	\$ -	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	FY20-FY25, three-year average FY17-FY19, lowered a bit to be conservative
WTR FINAL READING FEE	\$ 4,413	\$ 5,472	\$ 4,768	\$ -	\$ 4,884	\$ -	\$ 4,884	\$ 4,884	\$ 4,884	\$ 4,884	\$ 4,884	FY20-FY25, three-year average FY17-FY19
WATER DEMAND FEES	\$ 1,952	\$ 5,282	\$ 3,360	\$ -	\$ 3,531	\$ -	\$ 3,531	\$ 3,531	\$ 3,531	\$ 3,531	\$ 3,531	FY20-FY25, three-year average FY17-FY19
Investment Income	\$ -	\$ -	\$ -	\$ 28,160	\$ 28,160	\$ 28,160	\$ 28,160	\$ 28,160	\$ 28,160	\$ 28,160	\$ 28,160	FY20-FY25, assume FY20 budgeted amount
Other Available Funds	\$ -	\$ -	\$ -	\$ 131,239	\$ -	\$ 131,239	\$ -	\$ -	\$ -	\$ -	\$ -	Just include budgeted amount for FY20 and also for FY21
<b>Sub Total</b>	<b>\$ 2,197,502</b>	<b>\$ 1,895,243</b>	<b>\$ 1,922,745</b>	<b>\$ 2,133,205</b>	<b>\$ 1,868,488</b>	<b>\$ 2,406,463</b>	<b>\$ 1,868,488</b>	<b>\$ 1,868,488</b>	<b>\$ 1,868,488</b>	<b>\$ 1,868,488</b>	<b>\$ 1,868,488</b>	
General Fund Subsidy	\$ -	\$ -	\$ -	\$ 68,904	\$ 68,904	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	Included A-2 amount for FY20, Heidi confirmed that subsidy will happen
<b>Total Revenues and Other Sources</b>	<b>\$ 2,197,502</b>	<b>\$ 1,895,243</b>	<b>\$ 1,922,745</b>	<b>\$ 2,202,109</b>	<b>\$ 1,937,392</b>	<b>\$ 2,406,463</b>	<b>\$ 1,868,488</b>	<b>\$ 1,868,488</b>	<b>\$ 1,868,488</b>	<b>\$ 1,868,488</b>	<b>\$ 1,868,488</b>	
<b>Expenditures and Other Uses</b>												
Salaries	\$ 336,035	\$ 334,049	\$ 339,522	\$ 343,867	\$ 343,867	\$ 355,405	\$ 355,405	\$ 366,068	\$ 377,050	\$ 388,361	\$ 400,012	FY20 from Budget; FY21 on increased 3.0% yearly
Expenses	\$ 1,253,774	\$ 1,292,633	\$ 1,190,650	\$ 1,317,400	\$ 1,317,400	\$ 1,341,950	\$ 1,341,950	\$ 1,382,209	\$ 1,423,675	\$ 1,466,385	\$ 1,510,377	FY20 from Budget; FY21 on increased 3.0% yearly
Encumbrances	\$ 59,171	\$ 17,595	\$ 33,140	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	Amounts encumbered on Encumbrances (59999) line
Articles	\$ -	\$ 104,295	\$ 27,017	\$ -	\$ -	\$ 95,000	\$ 95,000	\$ 45,000	\$ -	\$ -	\$ 70,000	Includes article expenses FY17-FY19 and future articles for equipment
Long-Term Debt (Existing)	\$ 411,428	\$ 404,621	\$ 397,602	\$ 390,479	\$ 545,978	\$ 474,115	\$ 474,115	\$ 460,715	\$ 447,315	\$ 432,084	\$ 413,696	FY20 budget and projected differ due to water main cleaning bonded 6/19
Long-Term Debt (New)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 77,000	\$ 354,800	\$ 379,600	Projected debt based on capital projects in latest capital plan
Short-Term Debt Interest	\$ -	\$ -	\$ -	\$ 47,357	\$ 47,357	\$ -	\$ -	\$ 11,000	\$ 40,000	\$ 5,000	\$ -	FY20 budgeted; future years based on projected debt due to capital plan
<b>Sub Total</b>	<b>\$ 2,060,408</b>	<b>\$ 2,153,193</b>	<b>\$ 1,987,931</b>	<b>\$ 2,099,103</b>	<b>\$ 2,254,602</b>	<b>\$ 2,266,470</b>	<b>\$ 2,266,470</b>	<b>\$ 2,264,991</b>	<b>\$ 2,365,039</b>	<b>\$ 2,646,630</b>	<b>\$ 2,773,684</b>	
Indirect Costs	\$ 65,000	\$ 90,000	\$ 90,000	\$ 131,239	\$ 131,239	\$ 139,992	\$ 139,992	\$ 144,192	\$ 148,518	\$ 152,973	\$ 157,563	FY21 amount budgeted; increased 3.0% yearly
<b>Total Expenditures and Other Uses</b>	<b>\$ 2,125,408</b>	<b>\$ 2,243,193</b>	<b>\$ 2,077,931</b>	<b>\$ 2,230,342</b>	<b>\$ 2,385,841</b>	<b>\$ 2,406,463</b>	<b>\$ 2,406,463</b>	<b>\$ 2,409,183</b>	<b>\$ 2,513,557</b>	<b>\$ 2,799,603</b>	<b>\$ 2,931,247</b>	
<b>Excess (Deficiency) of Revenues and</b>												
Available Funds > Expenditures and Other Uses	\$ 72,094	\$ (347,950)	\$ (155,186)	\$ (28,233)	\$ (448,449)	\$ -	\$ (537,975)	\$ (540,695)	\$ (645,069)	\$ (931,116)	\$ (1,062,759)	
<b>Retained Earnings Summary</b>												
Undesignated Fund Balance as of July 1, 2019			\$ 1,311,625									
Available Undesignated Fund Balance/Retained Earnings Start of FY					\$ 1,311,625		\$ 863,176	\$ 325,201	\$ (215,494)	\$ (860,563)	\$ (1,791,679)	
Current Year Surplus/(Deficit)					\$ (448,449)		\$ (537,975)	\$ (540,695)	\$ (645,069)	\$ (931,116)	\$ (1,062,759)	
<b>Projected Retained Earnings Balance</b>					<b>\$ 863,176</b>		<b>\$ 325,201</b>	<b>\$ (215,494)</b>	<b>\$ (860,563)</b>	<b>\$ (1,791,679)</b>	<b>\$ (2,854,438)</b>	
Projected Retained Earnings Balance as % of Budget					36.2%		13.5%	-8.9%	-34.2%	-64.0%	-97.4%	

Town of Southborough  
Water Rate Study

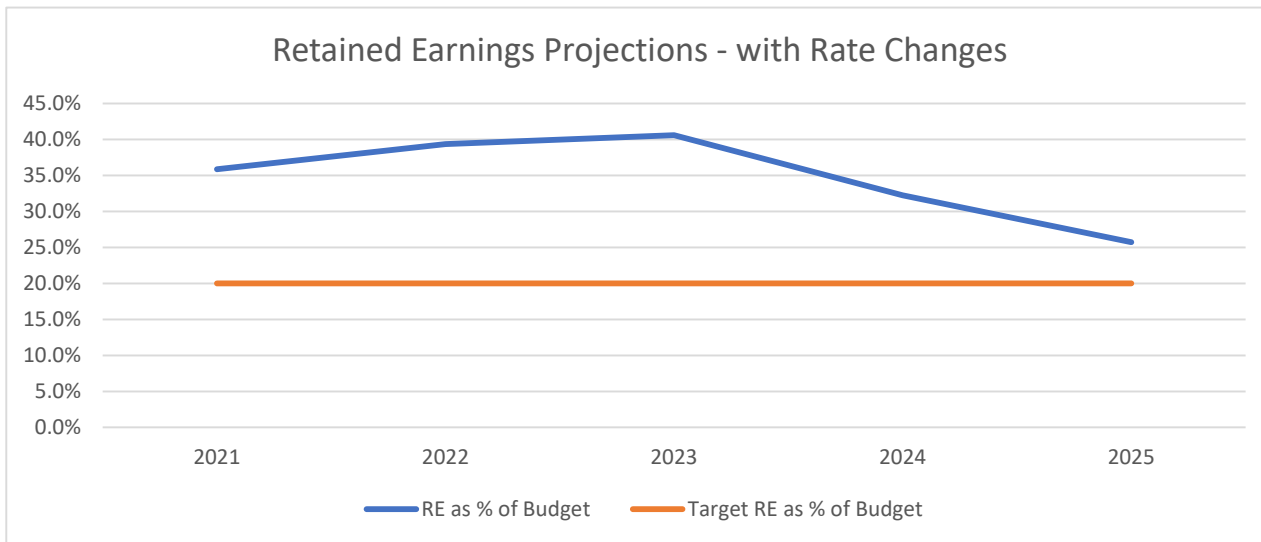
Option 1 - Tiers + 17%

New Tiers:	Tier	Start	End	Rate
These tiers would be in place for FY21, which includes a 17.0% increase for the meter charge and Tiers 2-3.	1	1	750	Minimum
	2	751	3,000	\$ 4.36
	3	3,001	10,000	\$ 6.86
	4	10,001	+	\$ 10.00
	5	-	-	\$ -

	2021	2022	2023	2024	2025
Rate Increases:	17.0%	5.0%	5.0%	5.0%	5.0%

Increase on Meter Charge?	Yes	No	No	No	No

Rate Impact	2021 PROJECTED	2022 PROJECTED	2023 PROJECTED	2024 PROJECTED	2025 PROJECTED
Surplus/Deficit	\$ 322	\$ 84,840	\$ 72,066	\$ (117,800)	\$ (148,454)
Projected Retained Earnings	\$ 863,498	\$ 948,338	\$ 1,020,404	\$ 902,604	\$ 754,150
RE as % of Budget	35.9%	39.4%	40.6%	32.2%	25.7%
Target RE as % of Budget	20.0%	20.0%	20.0%	20.0%	20.0%



User Impact

User Type	Usage per Bill (Avg.)	Current Bills		New Bills		Diffs	
		\$ per Bill	\$ Total Year	\$ per Bill	\$ Total Year	\$ per Bill	\$ Total Year
Low-End SEN User	475	\$ 22.02	\$ 88.08	\$ 25.76	\$ 103.04	\$ 3.74	\$ 14.96
Low-End RES #1	75	\$ 29.37	\$ 117.48	\$ 34.36	\$ 137.44	\$ 4.99	\$ 19.96
Low-End RES #2	800	\$ 29.37	\$ 117.48	\$ 37.09	\$ 148.35	\$ 7.72	\$ 30.87
Avg. RES (2,600/bill)	2,775	\$ 101.83	\$ 407.30	\$ 127.73	\$ 510.92	\$ 25.91	\$ 103.62
High-End RES #1	11,025	\$ 599.87	\$ 2,399.46	\$ 773.13	\$ 3,092.53	\$ 173.27	\$ 693.07
High-End RES #2	45,675	\$ 2,832.05	\$ 33,984.63	\$ 4,302.31	\$ 51,627.72	\$ 1,470.26	\$ 17,643.09
High-End Non-RES #1	27,483	\$ 1,664.11	\$ 19,969.28	\$ 2,572.62	\$ 30,871.39	\$ 908.51	\$ 10,902.11
High-End Non-RES #2	41,367	\$ 2,561.85	\$ 30,742.17	\$ 3,871.48	\$ 46,457.72	\$ 1,309.63	\$ 15,715.55

**Billing Data by Tier**

**Residential**

Includes Residential and Residential Institution account types

Tier	# Bills	% Bills	Usage	% Usage	Billings	% Billings
1	1,795	14.53%	8,689,950	26.81%	\$ 451,720.74	24.33%
2	7,970	64.53%	12,984,950	40.05%	\$ 566,676.20	30.52%
3	2,145	17.37%	7,522,100	23.20%	\$ 516,170.26	27.80%
4	440	3.56%	3,221,400	9.94%	\$ 322,140.00	17.35%
5	-	0.00%	-	0.00%	\$ -	0.00%
<b>Totals</b>	<b>12,350</b>	<b>100.00%</b>	<b>32,418,400</b>	<b>100.00%</b>	<b>\$ 1,856,707.20</b>	<b>100.00%</b>
		<b>Average:</b>	2,625		\$ 150.34	

**Non-Residential**

Includes any account not residential or municipal.

Tier	# Bills	% Bills	Usage	% Usage	Billings	% Billings
1	247	26.14%	599,100	10.30%	\$ 66,371.10	14.30%
2	286	30.26%	1,192,600	20.51%	\$ 52,046.26	11.21%
3	247	26.14%	1,796,600	30.90%	\$ 123,283.59	26.55%
4	165	17.46%	2,225,900	38.28%	\$ 222,590.00	47.94%
5	-	0.00%	-	0.00%	\$ -	0.00%
<b>Totals</b>	<b>945</b>	<b>100.00%</b>	<b>5,814,200</b>	<b>100.00%</b>	<b>\$ 464,290.95</b>	<b>100.00%</b>
		<b>Average:</b>	6,153		\$ 491.31	

**Municipal**

Includes Other account type

Tier	# Bills	% Bills	Usage	% Usage	Billings	% Billings
1	36	51.43%	30,800	11.24%	\$ 3,529.26	14.75%
2	21	30.00%	46,600	17.01%	\$ 2,033.67	8.50%
3	10	14.29%	41,100	15.01%	\$ 2,820.30	11.79%
4	3	4.29%	155,400	56.74%	\$ 15,540.00	64.96%
5	-	0.00%	-	0.00%	\$ -	0.00%
<b>Totals</b>	<b>70</b>	<b>100.00%</b>	<b>273,900</b>	<b>100.00%</b>	<b>\$ 23,923.23</b>	<b>100.00%</b>
		<b>Average:</b>	3,913		\$ 341.76	

**Seniors Only**

Shows seniors data only (also part of Residential table above)

Tier	# Bills	% Bills	Usage	% Usage	Billings	% Billings
1	458	30.11%	1,007,750	41.54%	\$ 41,216.77	35.56%
2	902	59.30%	978,450	40.33%	\$ 42,700.54	36.84%
3	143	9.40%	382,300	15.76%	\$ 26,233.62	22.63%
4	18	1.18%	57,600	2.37%	\$ 5,760.00	4.97%
5	-	0.00%	-	0.00%	\$ -	0.00%
<b>Totals</b>	<b>1,521</b>	<b>100.00%</b>	<b>2,426,100</b>	<b>100.00%</b>	<b>\$ 115,910.93</b>	<b>100.00%</b>
		<b>Average:</b>	1,595		\$ 76.21	



**ANNUAL WATER AND SEWER CHARGES IN  
COMMUNITIES RECEIVING SERVICES FROM THE MWRA  
2019**

	<b>Water</b>	<b>Sewer</b>
Arlington (W/S)*	\$711.44	\$842.24
Ashland (S)	-	1,649.60
Bedford (S/partial W)	791.00	1,313.00
Belmont (W/S)	877.88	1,622.20
Boston (W/S)	652.66	907.31
Braintree (S)	-	970.00
Brookline (W/S)	626.40	1,066.80
Burlington (S)	-	407.16
Cambridge (S/partial W)	380.00	1,386.00
Canton (S/partial W)	643.40	1,073.00
Chelsea (W/S)	656.40	1,136.40
Chicopee (W)	54.00	-
Clinton (W/S)	375.52	281.64
Dedham (S/partial W)	642.00	937.28
Everett (W/S)	291.60	793.20
Framingham (W/S)	820.80	1,034.40
Hingham (S)	-	1,313.60
Holbrook (S)	-	933.60
Leominster (partial W)	488.24	-
Lexington (W/S)	575.20	1,184.00
Lynn (partial W)	467.04	-
Lynnfield (W)	448.00	-
Malden (W/S)	682.08	797.76
Marblehead (W)	689.00	-
Marlborough (partial W)	852.00	-
Medford (W/S)	725.28	1,080.96
Melrose (W/S)	931.60	1,439.12
Milton (W/S)	838.80	1,459.68
Nahant (W)*	1,106.40	-
Natick (S)	-	1,232.00
Needham (S/partial W)	472.20	1,225.32
Newton (W/S)	911.80	1,448.20
Northborough (partial W)	643.24	-
Norwood (W/S)	667.44	957.96
Peabody (partial W)	421.00	-
Quincy (W/S)	800.40	1,202.04
Randolph (S)	-	1,029.40
Reading (W/S)	1,244.40	1,323.60
Revere (W/S)	469.20	1,414.80
Saugus (W)	680.80	-
Somerville (W/S)	672.72	1,338.12
South Hadley (W)	530.40	-
Southborough (W)	437.88	-
Stoneham (W/S)	776.40	1,226.40
Stoughton (S/partial W)	555.84	1,269.60
Swampscott (W)	882.80	-
Wakefield (S/partial W)	860.40	1,289.60
Walpole (S)	-	904.42
Waltham (W/S)	407.28	715.32
Watertown (W/S)	559.20	1,074.00
Wellesley (S/partial W)	471.96	1,102.80
Weston (W)	362.00	-
Westwood (S/partial W)	642.00	832.00
Weymouth (S)	-	1,122.60
Wilbraham (W)	494.40	-
Wilmington (S/partial W)	525.20	672.00
Winchester (S/partial W)*	312.80	357.60
Winthrop (W/S)	1,374.00	1,374.00
Woburn (S/partial W)	329.78	256.52
Worcester (partial W)	440.40	-
<b>AVERAGE</b>	\$641.82	\$1,068.12
<b>Percent change</b>	3.4%	3.56%

Water and Sewer Charges are based on an annual water consumption of 120 HCF ≈ 90 kgal.

(\*) Indicates communities that utilize the debt service exclusion as permitted under General Law 59 Section 21C(n).

## Combined Annual Water and Sewer Charges for Communities Receiving Services from the MWRA Household Usage Based on Local, State & Federal Data 2019

Charges include MWRA, community, and alternatively supplied services.  
Rates based on consumption provided to DEP by the communities and calculated by MWRA staff.

	Household Usage (HCF)	Household Usage (gal)	Water	Sewer	Combined
Belmont	79.8	59,684.2	\$611.70	\$1,103.11	\$1,714.81
Milton	86.5	64,727.0	\$596.50	\$1,008.22	\$1,604.72
Nahant	86.6	64,806.1	\$798.81	\$798.81	\$1,597.63
Stoneham	87.3	65,307.3	\$564.89	\$892.30	\$1,457.19
Lexington	103.5	77,434.0	\$473.69	\$964.83	\$1,438.53
Wakefield	70.5	52,714.5	\$535.01	\$790.38	\$1,325.39
Hingham	76.0	56,845.5	\$473.62	\$832.16	\$1,305.78
Marblehead	79.1	59,202.3	\$478.61	\$820.94	\$1,299.55
Reading	59.3	44,365.9	\$615.07	\$654.22	\$1,269.29
Needham	88.1	65,912.4	\$353.68	\$896.38	\$1,250.07
Winthrop	54.4	40,685.1	\$622.79	\$622.79	\$1,245.57
Wellesley	86.8	64,918.3	\$355.39	\$802.57	\$1,157.96
Ashland	63.9	47,808.4	\$267.95	\$888.53	\$1,156.47
Walpole	85.3	63,840.1	\$458.09	\$643.25	\$1,101.34
Newton	59.7	44,626.8	\$421.18	\$674.16	\$1,095.34
Melrose	47.9	35,865.7	\$375.19	\$656.77	\$1,031.96
Swampscott	75.1	56,198.6	\$571.41	\$458.72	\$1,030.13
Brookline	71.9	53,751.3	\$309.71	\$686.98	\$996.69
Dedham	71.3	53,321.5	\$421.57	\$543.67	\$965.24
Westwood	71.3	53,321.5	\$421.57	\$484.15	\$905.72
Canton	68.3	51,060.1	\$314.87	\$589.77	\$904.63
Chelsea	60.4	45,142.2	\$330.12	\$571.52	\$901.64
Northborough	51.7	38,691.1	\$283.89	\$586.57	\$870.46
Framingham	57.4	42,908.3	\$368.04	\$471.58	\$839.62
Randolph	59.0	44,111.8	\$359.48	\$479.91	\$839.39
Bedford	62.9	47,076.4	\$300.25	\$514.11	\$814.36
Braintree	58.1	43,444.3	\$325.22	\$488.27	\$813.49
Stoughton	52.3	39,096.6	\$256.86	\$553.00	\$809.86
Holbrook	55.1	41,197.2	\$376.17	\$428.49	\$804.67
Somerville	49.5	37,025.8	\$230.68	\$559.80	\$790.48
Arlington	57.0	42,641.8	\$351.60	\$436.14	\$787.74
Weymouth	53.1	39,704.3	\$284.22	\$480.38	\$764.59
Watertown	55.0	41,104.4	\$256.08	\$491.82	\$747.90
Medford	52.0	38,929.8	\$299.80	\$446.37	\$746.17
Lynn	65.3	48,818.7	\$253.23	\$480.35	\$733.59
Revere	46.6	34,893.7	\$182.40	\$550.00	\$732.40
Wilmington	72.2	54,003.3	\$288.99	\$404.30	\$693.30
Marlborough	45.7	34,219.5	\$324.81	\$334.88	\$659.69
Saugus	72.8	54,473.4	\$368.98	\$262.94	\$631.92
Malden	61.6	46,079.4	\$280.91	\$344.36	\$625.27
Natick	66.3	49,592.3	\$151.87	\$467.15	\$619.02
Chicopee	60.6	45,303.1	\$249.52	\$366.88	\$616.40
Norwood	60.4	45,158.3	\$269.12	\$333.76	\$602.88
Cambridge	39.7	29,687.6	\$119.86	\$467.14	\$587.00
Woburn	86.1	64,413.8	\$329.78	\$256.52	\$586.30
Worcester	58.9	44,021.7	\$215.99	\$367.24	\$583.23
Leominster	57.4	42,968.2	\$251.78	\$271.32	\$523.10
Boston	40.5	30,282.7	\$215.91	\$302.18	\$518.08
Everett	55.8	41,728.4	\$135.56	\$368.75	\$504.31
Weston	143.3	107,196.7	\$501.87		\$501.87
Waltham	53.9	40,295.3	\$165.38	\$294.13	\$459.52
Wilbraham	55.5	41,485.8	\$228.50	\$227.40	\$455.90
Peabody	58.6	43,822.6	\$193.92	\$258.37	\$452.29
Winchester	91.5	68,476.2	\$213.78	\$228.70	\$442.48
Quincy	42.0	31,407.1	\$280.06	\$140.20	\$420.26
Clinton	67.5	50,471.3	\$204.22	\$153.16	\$357.38
Lynnfield	91.0	68,097.8	\$315.54		\$315.54
Southborough	87.0	65,085.4	\$297.35		\$297.35
South Hadley	60.0	44,897.5	\$295.29		\$295.29
Burlington	52.8	39,475.2	\$84.40	\$87.36	\$171.76
<b>Average (minus non-sewered communities)</b>			<b>\$340.58</b>	<b>\$523.00</b>	<b>\$863.58</b>

# Southborough (W)

### Residential Water Rates:

Last adjusted:	September 2019
Next adjustment scheduled:	Unknown
Fund:	Special Revenue
Minimum charge (5/8" meter) includes first 10 HCF	\$29.37
>10 - 20 HCF	\$ 3.75/HCF
>20 - 35 HCF	\$ 4.26 "
>35 - 80 HCF	\$ 5.33 "
>80 HCF	\$ 6.40 "
Billing Frequency:	Quarterly

### Residential Sewer Rates:

Last adjusted:	Not applicable
Next adjustment scheduled:	Not applicable
Fund:	Not applicable
Community not sewered.	
Billing Frequency:	N/A

### Annual Cost AWWA Standard for Historical Comparison

(120 HCF ≈ 90,000 gals.)

Utility	Rate	Change from 2018
Water	\$437.88	0.18%
Sewer	\$0.00	0.00%
<b>Combined</b>	<b>\$437.88</b>	<b>0.18%</b>

### Annual Cost Based on Local, State & Federal Data

(87.01 HCF – See Appendix C  
for Data & Calc.)

Water	\$297.35
Sewer	\$0.00
<b>Combined</b>	<b>\$297.35</b>

### Commercial Water Rates:

Same as residential

### Commercial Sewer Rates:

N/A

### Additional 2019 Data by Community

Does this Community Use Second Meters?	No	Does this Community Offer Senior and/or Low Income Discounts?	Yes, Senior
<b>Water System</b>		<b>Sewer System</b>	
MWRA Charges as % of Total Community Water Expenses	50 - 75%	MWRA Charges as % of Total Community Sewer Expenses	N/A
Miles of water pipeline replaced/rehabilitated in FY19	1 - 3	Miles of sewer pipeline replaced/rehabilitated in FY19	N/A
Water Capital Needs over Next Five Years	\$0 - 10 million	Sewer Capital Needs over Next Five Years	N/A
Anticipated Water Capital Spending over Next Five Years	\$1 million - \$5 million	Anticipated Sewer Capital Spending over Next Five Years	N/A

### Stormwater

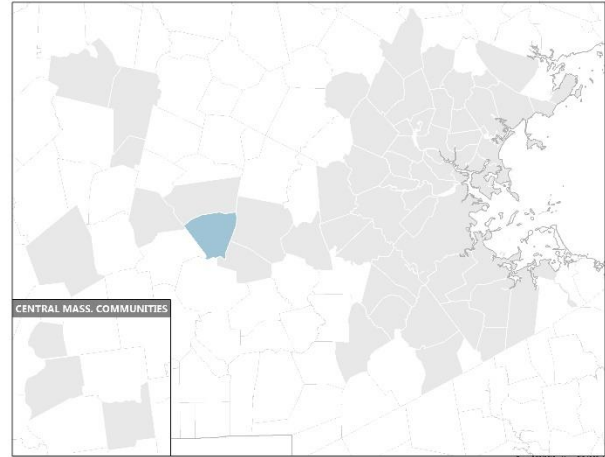
Current Funding Source of Stormwater-Related Costs:

Tax Levy (DPW Budget)

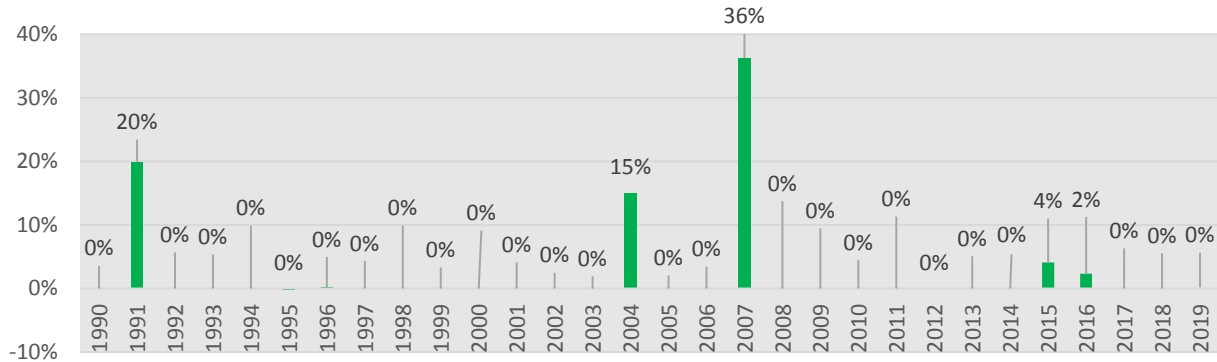
# Southborough (W)

## FY 2020 MWRA Assessments

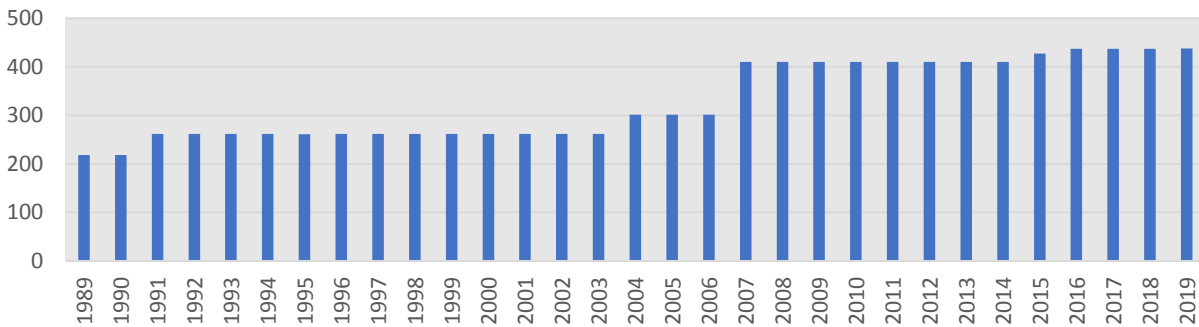
	FY19	FY20	% Change
<b>Water</b>	\$866,571	\$927,672	7.10%
<b>Sewer</b>	N/A	N/A	N/A
<b>Combined</b>	\$866,571	\$927,672	7.10%



### Combined Rate Increases 1990 through 2019



### Combined Water and Sewer Rates 1989 through 2019



### Average Household Water Use 2009 through 2019

